

**AMENDMENTS TO THE CLAIMS**

**Listing of Claims:**

This listing of claims is to replace all previous listings.

1-29. Cancelled

30. (New) A composition for controlling viability of a tissue including:

a potassium channel opener or adenosine receptor agonist;

a compound for inducing local anaesthesia; and

a compound for inhibiting transport of sodium and hydrogen ions across a plasma membrane of a cell in the tissue.

31. (New) A composition according to claim 30 wherein the compound for inhibiting transport of sodium and hydrogen ions is selected from the group consisting of: N-amidino-3,5-diamino-6-chloropyrzhine-2-carboximide hydrochloride dehydrate, EIPA, cariporide (HOE – 642), eniporide, Triamterene, EMD 84021, EMD 94309, EMD 96785, EMD 85131, HOE 694, B11 B-513 and T-162559.

32. (New) A composition according to claim 30 wherein the compound is N-amidino-3,5-diamino-6-chloropyrzhine-2-carboximide hydrochloride dehydrate.

33. (New) A composition according to claim 30 wherein the concentration of the compound is between about 1nM to 1mM.

34. (New) A composition according to claim 30 wherein the composition further includes at least one compound selected from the group consisting of:

a compound for reducing the uptake of water by a cell in the tissue;

diazoxide;

a source of magnesium in an amount for increasing the amount of magnesium in a cell

in the tissue; and

a source of calcium in an amount for decreasing the amount of calcium within a cell in the tissue.

35. (New) A composition for controlling viability of a tissue including:

a potassium channel opener or adenosine receptor agonist;

a compound for inducing local anaesthesia; and

an antioxidant.

36. (New) A composition according to claim 35 wherein the antioxidant is selected from the group consisting of: allopurinol, carnosine, Coenzyme Q 10, n-acetylcysteine, superoxide dismutase (SOD), glutathione reductase (GR), glutathione peoxidase (GP), catalase and the other metalloenzymes, glutathione, U-74006F, vitamin E, Trolox (soluble form of vitamin E), Vitamin C, Beta-Carotene (plant form of vitamin A), selenium, Gamma Linoleic Acid (GLA), alpha-lipoic acid, uric acid (urate), curcumin, bilirubin, proanthocyanidins, epigallocatechin gallate, Lutein, lycopene, bioflavonoids, polyphenols, trolox(R), dimethylthiourea, tempol(R), tocopherol, ascorbic acid, carotenoids, coenzyme Q, melatonin, flavonoids, polyphenols, aminoindoles, probucol, nitecapone, 21-aminosteroids, lazaroids, sulphydryl-containing compounds, ACE inhibitors, beta-mercaptopropionylglycine, 0-phenanthroline, dithiocarbamate, selegilize, desferrioxamine (Desferal), 5'-5-dimethyl-1-pyrrolione-N-oxide (DMPO) and a-4-pyridyl-1-oxide)-N-t-butyl nitron (POBN).

37. (New) A composition according to claim 35, wherein the antioxidant is allopurinol.

38. (New) A composition according to claim 35, wherein the concentration of the antioxidant is between about 1nM to 100uM.

39. (New) A composition according to claim 35 wherein the composition further includes at least one compound selected from the group consisting of:
- a compound for reducing the uptake of water by a cell in the tissue;
  - diazoxide;
  - a source of magnesium in an amount for increasing the amount of magnesium in a cell in the tissue; and
  - a source of calcium in an amount for decreasing the amount of calcium within a cell in the tissue.
40. (New) A method of controlling the viability of a tissue including the step of contacting the tissue with a composition according to claim 30.
41. (New) A method according to claim 40 wherein the composition is treated to oxygenate the composition prior to or while the composition is in contact with the tissue.
42. (New) A method according to claim 40 wherein the tissue is contacted by continuous perfusion of the composition the composition being at a temperature of about 10°C.
43. (New) A method of controlling the viability of a tissue including the step of contacting the tissue with a composition according to claim 35.
44. (New) A method for arresting a tissue including the step of contacting the tissue with a composition according to claim 30.
45. (New) A method for arresting a tissue including the step of contacting the tissue with a composition according to claim 35.
46. (New) A method for preserving a tissue including the step of contacting the tissue with a composition according to claim 30.

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- 47. (New) A tissue preserved by the method according to claim 46.
- 48. (New) A heart tissue preserved tissue according to claim 46.
- 49. (New) A method for preserving a tissue including the step of contacting the  
tissue with a composition according to claim 35.